Notebook, N-88-00-00.1

This undated notebook was probably used in 1888. The entries are by Edison and his wife, Mina Miller Edison. The book contains notes regarding the melting properties of numerous chemical compounds used for insulation. Some of the compounds are identified for potential use in phonograph cylinders or lamp filaments. The pages are unnumbered. One page has been removed from the back of the book. Approximately 60 pages have been used.

N-(88-00-001)

Zinc Sulpho Carbolate
Dont melt, burns &
leaves Ox. Zn

Sulpho-Carbanilid-
melts easily. Micaceous
Scales, after melting
not coherent, burns —
may be good mixer
for phenol cylinder

Sulpho-Carbamid
like the above but
more non-coherent
after melting

Succinamid,
Melts blackens, boils
leaves non-coherent residue

Oxalate Strontia
Chromate "
Doesn't melt

Kalium Xanthogenic
Melts & leaves hard
black stuff -
small in quantity

Lacto-phos-Magnesium
Dont melt,

Magnesium Sulphurosa
Dont melt

Magnesium Sulpho-phenylic
Dont Melt,

Ononin -
Melts, blackens -

Orcin Easily melts.
blackens - liquid
like -

Oxamaethan
melts very easily
nd

Nitroso-Dimethylaniline
Hydrochloride - melts
argues fairly large quant
charcoal, puffs up badly

Nitroso B-Naphthol
puffs up - mod amt
charcoal inflam

Nitrophenol - Meta
Melts, blackens boils
leaves little black -
might do for Hardness
phenol

Nitro-phenol (Ortho)
Boils all away

Nitronaphtolin boils away, may be good for Phonograph.

Nitroso ~~Met~~ dimethylaniline melts and leaves considerable charcoal, rather shiny, puffs up.

Naphtalin Cl Cromat - melts and boils away, might be good for phonograph.

Nitrotoluol, crist, para - Boils all away.

Oxy bengol - saim para - Melts, leaves considerable charcoal not shiny,

Allyl - Sulphocarbamid - melts easily and leaves very little charcoal ~~good for Photographs~~ -

Alania - burns all away without melting

Paraoxybenzaldehyd - non coherent -

Bismuth Subcarbon - Does not melt -

Barium propionic - slightly vitrifies -

Barium Sulphuret - Does not melt.

Acid Sebacylic - Melts; very little charcoal. Noncoherent.

Acid Trichloracetic - Boils all away. Melts easy, non coherent.

Acid Sulfanilic - Phenomenon - Carbonizes almost entirely, scarcely anything if anything comes off - Crystals preserve their shape - Charcoal difficult combustable - Charcoal shiny - Insoluble in water - This is first class - Probably soluble in Non-aqueous liquids may do

for 17 and insulation

Aconitin, amorph. pur. pulv. - Melts easily - Resinous, brittle substance. Don't Carbonize -

Acid. Uric - Don't Melt - Carbonize with difficulty, scarcely anything goes off. Calcs big ash - Somewhat difficult Combustible but black and hard to Carbonize - good to investigate

Acid. Tannochloric - Melts to a Resin - leaves very charcoal - Very easily combustible -

Tartaric Acid - Too much water - boils violently. leaves very little - Easily combustible. Charcoal, N. G.

Acid Hol framic - Does not melt or change

Acid Succinic - Melts easily - Boils all away. Crystalline - May do for Phonographic Cylinder -

Arsenic Sulphide - Melts easily to hard glassy brittle Mass.

Atropin Sulphur - Melts easily - boils nearly all away - leaves little charcoal - Difficult combustible

Acacia - Insoluble in water - & carbonizes to charcoal with little fusion - Very little goes off - charcoal cakes and rather shiny - good - Investigate -

Acodiamedo Benzol Hydrochlorate - Melts and Puffs up enormously - like Sulphocyanide of Mercury - Shining - Difficult combustible - Charcoal bulky porous - Very little flame - Very large charcoal Residual -

Carbonat of Baryl - Don't Melt.

Cupr. Acit. cryst. C. P. - Don't Melts - But gives off a flames and reduced to Oxide Copper.

Ammoniated Copper - Scarcely melts - Reduced to black Oxide Copper.

Cuprum Arsenicus - Scarcely melts.

Cuprum Chlorat - Don't melt - Reduced to black oxide.

Cupri Cyan - Difficult to melt - fraible.

Cupr. Jodat - Don't melt - Decomposes

Cuprum Boracic - Decomposes - Scarcely melts -

Cupruim Carbonic - Decomposes Easily to black oxide of copper without melting -

Acid picraminic, crystl. - Melts with vivid combustion; leaves easily combustable charcoal -

Acid Rufigallic - Carbonizes to very easily combustable Charcoal, which self burns out a minute - Much Ash - Considerable flame -

Acid piperinic - Melts with difficulty - Big flame - Small residue Porous carbon not shiny -

Acid Rhotalic - Burns all away - Melts Easily -

Spinsauer Antimon Pok - Dont melt - Decrepitates.

Antimon. et Pflass. Tartras - Dont melt -

Cephaelin hydrochloric not tested.

Acid Rosolic - Melts - Puffs up enormously - Charcoal easily combustable - Little flame - Stuff non-crystaline - May be some good -

Arabinose - Melts. Carbonizes - Considerable charcoal not very shiny -

~~Arsenic Metallic~~ "

Sugar - Swells up, gives dark glistening charcoal - Moderately easily combustion - Considerable flame - Charcoal film - Coherent -

Albitin Crist - Melts easily - boils very little - Charcoal as shiny as sugar - Difficult combustable - Uncarbonized stuff - Resin like after melting -

Conglutin - Melts Hard - Large Residue of Charcoal puffs like Sugar Shines better - more difficult combustable but flames & Charcoal brittle

Acid Pyrogallic - Melts and sublimes - no charcoal - Melted button - fragile

Coniferin - Melts and acts like sugar, about same residue not shiny and charcoal very easy combustible

Arsenic nitr. fulv. - Melts to little glass easily - Good stuff later sharp impression.

Sulphuret of Stibium - Avant - Melts with difficulty if at all - but at certain point combines with the nickel to a button -

Stibium Arsenicic - Dont Melt - Fluoresces like lime -

Stibium Oxydat. Alb. Ph. Bor. V. Dont Melt -

Acid Lanicinic - Melts and all Volatilizes

Acid Nitrophtalic - Melts and nearly all volatilizes

Acid Diphenic - Melts and all Volatilizes -

Acid Nitrophenyl propiolic - Melts - leaves small residue of puffy friable charcoal.

Acid Hippuric - " Acts like sugar but charcoal not quite so coherent.

Acid Molybdatic - Don't Melt.

Acid Margarinic - " Melts and burns all away - Melted stuff non coherent.

Aniline Sulphonic - " Melts with difficulty - leaves large quantity of hard coherent charcoal - difficult combustable - fairly shiny.

Amylbenzoyl-dat - " Very curious - Don't melt - scarcely anything comes off - holds its shape - Very coherent - fairly shiny - seems if whole mass ~~shiny~~ charcoal - difficult combustable - Investigate.

Acid Copaivic - " Melts very easy - Burns without residue - Melted ~~[illegible]~~ Button - soft. Can be drawn into ~~[illegible]~~ glassy - investigate for phono - etc.

Chloronaphtalinic - Boils all away - Button brittle

Acid Cinnamylic - Melts and burns all away - Melted button friable.

Acid Cantharlinic " - Scarcely melts Bulky charcoal and shiny - Very combustable charcoal.

Acid chinic Crist. " - Melts - Acts like sugar but leaves very little charcoal -

Acid Carminic " - Melts fairly easy But puffs up - Scarcely anything comes off on any flame - charcoal very coherent and surface very shiny - investigate.

Chloracetic Sam - Acid " - Melts easily - no residue - button non-coherent -

Acid Camphoric " - Melts easily, burns without residue - Button friable -

Alphanaphtoic - Melts instantly
no residue -
"

Acid Aloetinic - Very inflamable
½ residue of black charcoal non-
coherent.

Acid Agelainic " Melts easily - no
residue - Button friable -
"

Ammon Arsenicos - Scarcely melts -
"

Acetotolindin Cind. Melts no
residue - Button very fraible.

Amido-azobenzol Hydrochlorate -
Puffs greatly - nearly all charcoal -
Exceedingly shiny - difficult com-
bustable, not very coherent -
"

Amidopropionsäure - Dont melt
burns all away -

Ammon. picronitric - Vivid
combustion but less than Magnesium
black easily combustable charcoal
and not much of it.
"

Amidophenol para. - Melts and burns with scarcely any residue - Button hard and brittle

Amidophenol " - Melts easily - scarcely any residue - Button brittle & hard -

Amido azo benzol " - Melts - no residue - Button hard and brittle

Bromide Ammonia " - Dont melt Volatilizes slowly away -

Ammonium Bichromate " - Dont Melt - Decrepitates violently -

Ammon. Hypophosphorous " - Fuses to a very sappy - sticky mass - Nonsparkt -

Ammonia Tartrate " - Burns - leaves nearly all charcoal - Dont Melt - Frothing - Coloured - Insoluble.

"

Ammon. Iodat - Volatilizes -

Ammon. Uric - "Does not melt in the slightest - Carbonizes and keeps shape, no flame whatsoever - charcoal dark but this is because it doesn't melt - Good for insulation if insoluble in water - Good for 17 Sarcosligate - now crystalline -

Ammon. Succinic - Melts - leaves practically no residue - but black stuff left stands red heat + is still sticky - very little flame - Button heated until melted, Roppy, higher heat black + sticky -

Caffein Valerianic, ss. - Melts - no residue -

Caffein, Citric, ss. - Melts - no residue

Cadmium Sulfate - "Dont Melt -

Caffein Benzoic, ss. - Melts, no residue -

Caffein, Sulphuric, ss. Cryst, - Melts, no residue -

Caffein Arsenicic - Melts - no residue -

Carbodiphenylimid - Melts - no residue - Button Semi - friable -

Cathadin - Difficult to Melt - Puffs, gives bulky charcoal - Very Combustible + lots of ash -

Carthamin - Scarcely melts - Puffs - leaves very easily combustible charcoal -

Casein - Semi - melts - Puffs and gives large quantity puffy charcoal - quite coherent, worth investigating -

Cinchoniae Sulphas - Melts - Puffs and boils violently - leaves but little charcoal which is coherent and shiny -

Cobalt chloral Cryst. purpiss - Melts Easily - Non coherent button -

Cinnic fugin – Melts – Small amount of charcoal – black and easily combustable –

Chrysoline pur. – " Fuses – Very puffy, combustable charcoal – not shiny –

Chrysaniline – Melts very little – Nearly all charcoal – puffy – charcoal not shiny and somewhat cohesive – May be something in it.

Cobalt Ammon. Sulphuric – Don't melt. "

Chrysen pur. cryst. – Melts without residue – "

Cobalt Oxalic, much – Don't melt. "

Cinchonidia – Melts no residue – button friable – "

Sulphate of Cinchonidia – Melts – Easily brile – Very little charcoal but cohesive and black on top – shiny underneath – "

Cinchonia Alkaloid - Melts -
Burns without residue -

Cinchonia Chloride - Melts easily -
Gives little charcoal - Puffy but co-
hesive and shiny -

Magnesia Hypophosphite - Melts slightly
Phosphorous - Sets free and Phosphorous
Anhydride given off -

Magnes. Phosphate - Only semi-fuses -

Magnesia Sulphite - Semi-fuses -

Magnes, Lacto - Phosph - Don't fuse -

Magnesia Lactic - Don't fuse - Might
do for a Mills tach -

Magnesia Hyposulphurous - Semi-
fuses - Fluoresces immediately - Ele-
gant for a Mills tach -

Magnes. Valerianic " - Melts - but
leaves scarcely any residue of Mag-
nesia -

Magnesia Tartaric " - Scarcely melts -
Deliquesces but elegant Millstach -

"

Magnes. Sulpho-phenylic - Dont melt - N. G.

Magnesia Sulphurosa - " Dont Melt -

Magnesia Benzoic - " Melts - Black, Glassy, little bottom, boil nearly all away -

Magnes. Chlorat - " fuses - puffs - Good Millsbach -

Magn. Boro-citric - " Dont Melt - N. G.

Magnesia Coracic - " Dont melt -

Magnesium Citricum - " Dont Melt -

Magnesia Carbon - " Crist. pur. - Dont Melt - "

Lactate Zinc – Scarcely fuses

Nitrate Zinc – fuses viscous mass – boils – afterwards decomposes to yellow oxide –

Sulpho-Carbolate Zinc – puffs – dont melt, blackens – shiny –

Zinc Phosphoric – Dont melt,

Zinc Tannic – Dont fuse – scintillates decomposes –

Zinc Phosphorous – Cakes together quite hard

Valerianate Zinc – melts, boils – decomposes – gives off dense white oxide –

Zinc Picronitric – Melts to brittle Resinous stuff – Explodes!

Zinc Salycilic – puffs – carbonizes decomposes – turns pink on slight heat –

Zinc Benzoic - Dont melt - Decomposes.

Zinc Boracic - melts at Red to white Enamel.

Zinc Chromic - Dont melt - turns black.

Zinc Cyanatum - decomposes to yellow ox - seems be anhydrous probably / good for Lamp residual

Zinc Ferro-Cyanat - Dont melt seems be anhydrous - after ancred hot stays so for long time. -

Zinc Hypophosphorous - decomposes and gives off phosphorus which burns to phosphoric anydride - may be good for Lamp residual.

Natrium Uric. - Dont melt blackens

Natrium Valerian - fuses - boils all away but oxide Na - button brittle

Natrium Xanthogenic - Semi-fuses - decomposes

Weinsaures Kali - Natron.
Fuses to syrupy mass - Carbonizes to black porous charcoal

Stibion - boils all away
Button friable -

Carbonate Strontium - Dont melt -

Chloride Strontia - fuses at red heat to pure white enamel - brittle & not perfectly coherent but would be if fused more probably -

Natrium Wolframic –
difficult melt at red heat cakes
somewhat together –

Strontium Sulphate dont
melt but slightly cakes
at red heat

Sulphite Potassium –
Dont melt – slightly
cakes – Think it has
fluorescence –

Iodide Potassium –
Decomposes strongly
but at red melts to
transparent Enamel
somewhat flexible &
can be cut with knife

Oxalate Potassia - Semi fuses
blackens

Phosphate Potass - nearly
fuses. boils & dries to Crust

Natrium Tartrate -
puffs like Sulphocyanide but
dries charcoal carefully
Combustible. funny

Tartrate Potash
puffs up slightly -
Carbonizes

Calcic Hypophosphite -
Semi-fuses - Coke hard
Together - gives off large
quantity Phosphorus
which again gives smoke
of Phosphoric Anhydride,

Calcium lactate fuses -
Bubble Bubbles —

Calcium Oxalate -
Dont fuse - decomposes

Calcium phospholactic
Dissolvable —
fuses Carbonizes — This is
very fluffy good
Wallsback — Sumpy —

Calcic phosphoric
Dont melt,

Calcium Propione
fuses - bubbles —

Calcium Sachanat
but cooling without fusion.
Doesn't melt - Carbonizes
probably melts slightly, enough for pleasant
Good Well-behaved - as this
is soluble in H_2O for a bead
can't argument. Immediately

Sulphide Calcium
Don't melt.

Lepidolite -
melts - burns - family
Considerable residue -
Combustible charcoal

Lithium Benzoic -
melts to friable button.
Small hard Combustible
Charcoal.

Lithium Boracic - Semi fuses at red heat -

Lithium Carbonate - fuses at Red heat to glass silex to Strip Strongly.

Lithium Carbonic - Fuses at very high heat -

Lithium Chlorat - Fuses high heat - hard but granular.

Lithium Citric - Puffs - Semi-fuses - Black, puffy charcoal - Lithium comes off -

Lithium Ferro-Citric - Puffs up - Carbonizes Easily combustable charcoal - Black -

Lithium Oxalic - Carbonizes - Easily Combustable charcoal -

Lithium Oxydat - Melts - Bubble as Glass.

Lithium Phosphoric - Don't Melt -

Lithium Salicylic - Burns without melting -

Lithium Sulfo - Phenic - Burns - Doesn't Melt - Easily combustible charcoal

Lithium Sulfuric - Decipitates all away -

Plumb. Phosphoric - Decomposes to Litharge without fusing -

Plumb. Sulfurat - Decomposes - Doesn't Melt -

Plumb. Sulfuric - Doesn't Melt -

Plumb. Sulfuros - Doesn't Melt - Decomposes

Plumb. Tannic - Sicc. - Doesn't Melt. Pyroforic.

Plumb. Tartaric - Doesn't Melt - Pyroforic

Plumb. Hypophosphoros - Melts - Enormous quantities phosphorous sel free - Melts to glass after phosphorous goes away -

Plumbum Hyposulfuros - Doesn't Melt - Instantly turns black -

Oxalate ~~Head~~ of Lead - Melts to Enamel - Somewhat brittle - Iodine given off -

Plumbi Peroxid - " Dont Melt - Reduced Easily to Litharge -

Plumb. Acetic. Plumbus - Melts - Brittle button - Leaves very little Litharge -

Plumb. Boracic - " Fuses slightly with difficulty

Plumb. Chlorat - " Fuses high temperature Brittle button -

Plumb. Cyanat - Decomposes and Litharge melts -

Plumb. Ferrocyanat - " Dont melt - Tinder like burns long while after out of the flame -

Ferrum Malic - Dont Melt - Pyroforic

Calcium Carbonic fum. - " Fuses to bottle glass - Puffs up greatly and after burning makes elegant Millepede.

Calc. Chromic - Dont Melt - Turns redish

Calc. Silicic - Dont Melt -

Calc. Nitros - " Melts - Brittle button
Gives off lots of Nitric acid -

Sodii Sulphas Cryst - Fuses in
water - Crystallization.

Sulfo - Carbolate " of Soda - Semi - fuses -
Blackens - Inflammable.

Natrum " Sulfuret. Does not melt
much but gives off Sulphur quickly
and burns for long time extended
with beautiful purple color.

Sulfoarsenate Natrum - Melts + burns.

Sodium Tartrate " pur. - Melts to puffy
charcoal -

Morphiae Acetas " - Melts - boils -
Very little shiny charcoal not very
combustable -

Morphiae Muriat " - Melts - Boils -
Small residue charcoal fairly co.
herent + shiny.

Sulphate of Morphine - Melts to puffy
charcoal. Rather shiny and considerable
in quantity - not very combustable -

Calcium Lacto - Phosphoric -
Slightly fused so it sticks together
Carbolicis -

Strontium Bromic - Melts at a
very high temperature - Brittle as
glass - May do for heat battery -

Schwefelbarium oxos - Melts and gives
off lots of white fumes - leaves very
small yellow residue -

Strychnine Nitric - Melts - Boils -
Leaves very small amount shiny
charcoal difficult combustable -

Hydrarg. Subjodid rubr. - Don't fuse
Decomposes to black -

Hydrarg - Oxalic Oxydul - Evaporates
quickly all away -

Hydrarg. chromic - Don't melt
Decomposes - Blackens -
Horrwold this is for a Dehy-
drogenizer in a battery.

Hydrarg. Arsenicos - Decomposes
and Sublimes - Vitrifies -

Hydrarg. Tannic. Oxydul. Merck.
Dont fuse — Carbonizes and
leaves bulky easily combustable
charcoal —

Hydrarg. Acetic — " All evaporates
away.

Hydrarg. Chloro-iodat — " Decom-
poses suddenly ~~goes~~ at a critical
point goes off in grial smoke

Strontium Oxide — Caustic
Dont fuse

Natrum phenylate
fuses & mercurolates

Natrum phospho-Molybdenic
Dont fuse

Natrum phospho-Wolframic
Dont fuse

Natrium propylsulfuric
melts, dries

Natrium Salicylic -
slightly fuses

Natrium Santonic
melts to a red brittle
resinous stuff - Crystals
originally white -
very brittle | Carbon residue

Stannate Soda - Dont
appear to fuse - gives
smoke -

Natrium Succinic
melts slightly gives
hard residue Charcoal

Natrum Stearinic
melts ~~Carbon~~ to brittle
button - blackens -

Natrum Cresoatinic
fuses - Carbonizes to puffy
Charcoal ~~fu~~ Exceedingly
- carbonaceous burns
entirely away after leaving
flame +

Soda Fluoride
Dont fuse but slightly

Natrum Hippuric
White salt melts to Red
Viscous stuff - Cooled leaves
brittle stuff - Carbonizes
to small unshiny Charcoal

Natrium Hypermangan
Black hard brittle Lumps
withstands a red heat
Dont seem to decomposed
The salt is nearly black
it may conduct E in dry
state if so may be good
in Lelande — also for Heat
battery in mixture —

Natrium Iodic
Melts to vanishing glass
that flames well with
bright

Natrium Lacto-phosph
Little balls — very tough
Looms like Gut-like solid
in surface of balls — yet dont
seem to dissolve much might
mix with Wax —

Sodo Molybdenite
semi fuses -

Natrium - Nitro-prussic
semi-fuses - decomposes
badly decomposes gives
off prussic acid.

Natrium Methyl-Sulphuric
fuses n.g.

Natrium Oxalic
fuses - blackens

Natrium Bitartrate -
Fuses - bulky charcoal

Natrium Boro-Benzoic
softens & puffs in remarkable
manner - probably could
be fused to coherent mass but
cantel with air -

Soda Bromide
Scarcely fuses

Natrium
Isobutyle sulphuric
Very puffy mixed charcoal

Natrium Butyric
Melts Easily to
liquid viscous mass.
Butter soapolony
weight mix with wax

Citrate Sodai - melts
blackens

Natrium Aethylsulphuric
Melts Easy - Butter Gritty.

Natrium Arsenicos
Hard lumps - at high temperature melts to Reddish glass very clear useful for smelching & glass

Natrium Benzoic
Melts to liquid butter
Rather brittle so a polony
might mix with wax

Salicin -
Acts just like Sugar

Saccharin - melts
acts somewhat like sugar
but charcoal easily
Combustable - not shiny

Salol -
melts ~~noticeably~~ no
residue - might do
for phono

Saponin - melts little
charcoal but shiny

Santalin - Carbonizes
very quickly puffs
~~Exceedingly~~ - charcoal
shiny & not great quantity
don't seem to be very combustible
Considering its fluffy
Charcoal it won't Combustible

Santonin - Melts very
Easily - boils all away
might possibly do for
wax hardner / butter very
brittle not clear

Bromide Silver – Melts Easily to liquids which becomes solid & Cuts like Horn Silver gives shavings but is not as flexible & tough I think as AgCl. Thought it perhaps may be rubber properly melted

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Argent Chromic melts to black mass like the bromide but very brittle

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Iodide Silver
Melts like above but Solid mass powdery in Cutting

Argent Oxalic — decipitates
oil away

Argent phosphorus
Reduced to beautiful
metallic Silver at Red
This ought to be good for
many uses

Argent Nitrous does
not change, I think but
its finely divided is
gray

Argent Sulphuric
Melts & Reduced to Silver
at very high temperature
think it can be used for
Coating metal as it
covers surface nicely

Quercit
Eichelgerbsäure
melts & leaves little
charcoal very combustible

Quercitrin - acts
like shellac but flow
not so coherent & shiny

Quinidia - melts, burns
no residue - bulles red
brittle, Resinous

Puffs greatly, considerable
gas off - flames, considerable
charcoal shiny & moderately
incombustible - may remain

Xanthoxylin —
Melts puffs considerably
Charcoal not chunky
+ is somewhat combustible

Uranin —
Remarkable - puffs up
better than Sulphate
of Ag - very wonderful

Uranium Acetate
Dont melt or crackling

Chloride Uranium
Dont fuse —

Uranium Oxalate
Dont fuse blackens

Uranium phosphoric
Dont fuse

Urea
Fuses all away

Murathe Urea
Boils all away

Urea Nitrica
Boils all away

Urea Oxalica
Burns little Charcoal residue

Triphenyl - Methan -
melts all away but an
brittle.

Tropacolin - Semi
fuses - bulky charcoal
Cut very [illegible]

~~Tryp~~ Trypsin
nearly all charcoal puff
little - char shiny -
difficult combustible
good - charcoal film
somewhat friable -

Urethan - Ethyl -
boil, all away

Urson -
Boils all away

Stannum Protochloride
melt - H_2O goes off then
a dark viscous bottle
mass - has some uses
after gets thus state
lots white fumes go off

Stannum Sulphuric Oxyde
Decomposes all away

Traubenzucker -
acts like Chem Rel like Sugar - water free -

Chloride Thallium
Like - but more brittle than
Horn Silver
Cuts nice - bit pounds

Stannum Bichloral.
Fuses - goes to white
upon the crust

Thebain
Melts to beautiful
Red resin - brittle
Charcoal shiny
but little effect -

Thymal -
Boils all away

Terpenhydrat
Boils all away
when poured for button
on cooling vescous
quickly drawn into threads

Theobromine

Very little charcoal
fairly shiny

Thiosinnamine -

Melt Easily - moderately
amount of shiny charcoal
film like sugar - reaction
more shiny than sugar
Thio many to good
most stuff dissolves off
before hand - Button brittle
uncoloured

Kalium Sulphuricum

Scarcely fuses

Kalium - Uric

nil

Protocatechuraldehyde
Melts - very little
Charcoal

Nitrophenol
Para -

Boils all away
Button Cuts beautifully
Smooth - Thumb H
would be good
hardener for phono

Nitroso B Napthol
Para -

Burns - melts leaves
very little charcoal
not shiny but
films - Button Cuts
well - may be good
Hardener for phono when
needed well

Narcein -
Melts all a way
Brittle w/ bottom

Aniline Dyes

Chloride Aniline
boils all a way
Might act as shrinker
for photomo

Aniline Green
Dont Melt - seems
to all stay as charcoal
not shiny perhaps because
it dont melt - may be
good for filament

Aniline

Blue Ethyl

Nearly whole left as
charcoal & clouds
high Compounds only
puffs charcoal very
shiny + incombustible

Black Sol -
Dont melt puffs very
little nearly all
Carbon - rather shiny
not very combustible

Brown - product
all charcoal very
shiny + incombustible
End particles [illegible]
g. Carbon by itself &
g. Carbonyls - [illegible]

Orange -

Puffs enormously
seems to have phased
it - charcoal, whereas
burning shiny but probably
owing to fluffy nature
Easily combustible -

Fuchsine Crystal
melts pretty well
together - very hard
shiny noncombustible
charcoal - necessity
- all charcoal

Eosin - carbing
all charcoal coherent
dmt fuse - this it
is good -

Meal Green
Mellow Evidently
not much charcoal
not shiny but very
hard -

Black -
Puffs Enormously
nearly all charcoal
very shiny + non
combustible -

Coarse Extra
Scarcely fuses -
Hard unshiny
Charcoal

Saffranine –
Puffs considerably
Very shiny charcoal
not conclusively

Hoffmann Violet
Little puffy. Very
shiny & black charcoal

Yellow Residue
Insoluble this.

Methyl Violet
Puffs little – coherent
film very shiny
hard chrome
Food –
considerable flame –

Yellow — Crystl -
Vrylitlle Canbyy
Lots [illegible]
Elegant [illegible]
well [illegible]

Fuchsine yellow
Crystal Hand Now
comb- [illegible]

Leguminosae.

Scarcely powders - no flame - melts only to stick together - leaves very shiny charcoal coherent - ~~that clears for 17~~ + fil - diff combust

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Haematoxylon - melts to a viscous resin - then blackens - leaves moderate amount shiny charcoal

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Haematin. scarcely fuses no flame; leaves heavy acid charcoal - not only shiny as if dead melt well coagulates - may do for a fil

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Jalap Resin - melts + leaves a film of charcoal which cracks + falls opts in acid solution

galapin -
albatosanu as galap
Rico -

Aldehyde ammonia -
melts nearly all away
very little charcoal
might possibly do for
a gland Hardener